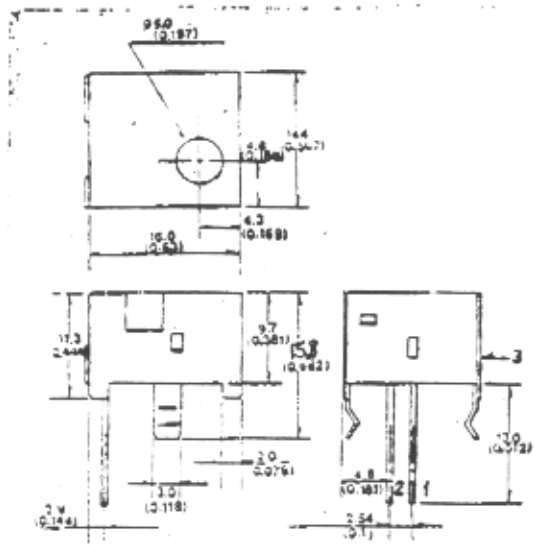
INFRARED REMOTE CONTROL RECEIVER MODULES

LGM 6810A

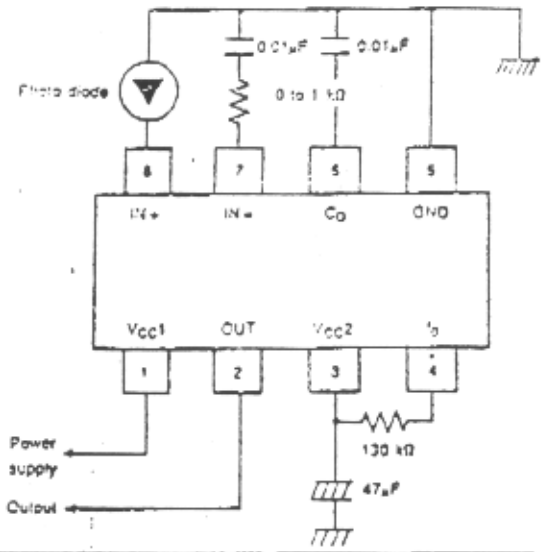
PACKAGE DIMENSIONS



1. Vout
2. Vcc
3. Gnd

NOTE: All dimensions in millimeters (inches) tolerance is ±0.25 ±(0.01") unless otherwise noted

RECEIVER MODULE EQUIVALENT CIRCUIT



RECOMMENDED OPERATING CONDITION

PARAMETER	SYMBOL	RATING	UNIT
Supply Voltage	Vcc	4.5 to 5.0	V

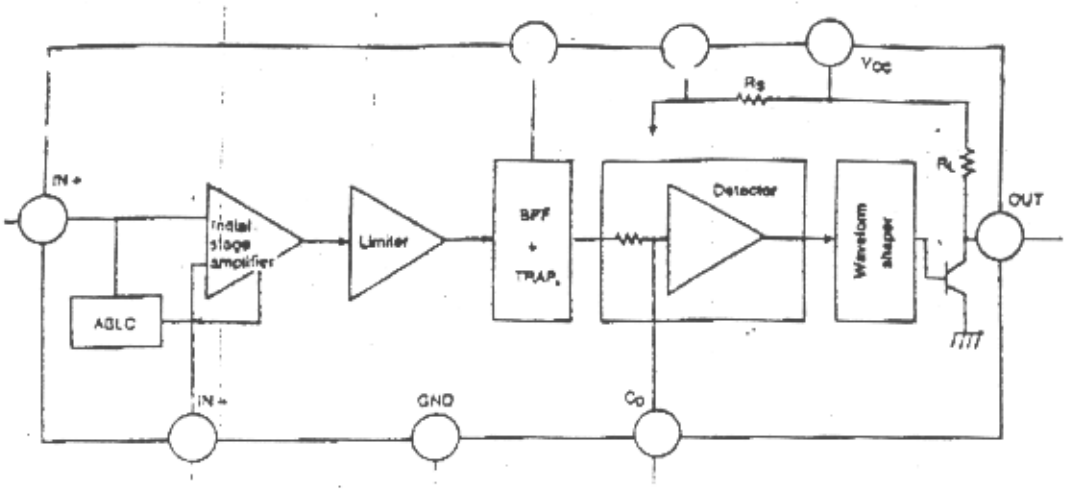
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Supply Voltage	Vcc	5.5	V
Storage temperature	Tstg	-20 to +60	°C
Operating temperature	Topr	-10 to + 60	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C,Vcc=5V)

PARAMETER	SYMBOL	CONDITION	RATING			UNIT
			MIN.	TYP.	MAX.	
Current Consumption	Icc	Non-signal input		2.1		mA
Arrival distance	L	AT the ray axis	8.0	10.0		m
		The ray receiving surface at a vertex and in relation to the ray axis. a. In the range of 30 cone b. In the range of 45 cone	6.0 3.0	10		m
Low level output voltage	VL	30 cm over the ray axis			0.5	V
High level output voltage	VH	30 cm over the ray axis	4.5			V
Low level pluse width	TWL	Specified by the output TWL period with in a range from 5cm to the arrival distance (Average value of 50 pulses)	440		770	us
High level pluse width	TWH	Specified by the output TWH period with in a range from 5cm to the arrival distance (Average value of 50 pulses)	440		770	us
Sensitivity Wavelength	P	-		940		nm
Carrier Frequency	fo	-	30	38		KHz
Viewing Angle TO Half Sensitivity	θ	-		45		Deg

MODULE SCHEMATIC



ELECTRICAL CHARACTERISTIC CURVES